

### Contributors to this Issue

JULIAN BLANCHARD, A.B., Trinity College (now Duke University), 1905; A.M., Columbia University, 1909; Ph.D., 1917. Professor of Engineering, Trinity College, 1909-1912; Research Assistant in Physics, Columbia University, 1912-1915. Physicist, Research Laboratory, Eastman Kodak Company, 1915-1917; Engineering Department, Western Electric Company, 1917-1925; Bell Telephone Laboratories, 1925-. Dr. Blanchard's work has been concerned primarily with special studies in connection with the development of vacuum tubes and radio. More recently he has been attached to the Technical Consulting Staff of the Laboratories.

G. M. BOUTON, Ch.E., Brooklyn Polytechnic Institute, 1926. Bell Telephone Laboratories, 1926-. Mr. Bouton is in charge of a group concerned primarily with the metallurgy of lead cable sheath alloys and solders and with general microscopic examination of metallic materials.

W. P. MASON, B.S. in Electrical Engineering, University of Kansas, 1921; M.A., Columbia University, 1924; Ph.D., 1928. Bell Telephone Laboratories, 1921-. Dr. Mason has been engaged in investigations on carrier systems and in work on wave transmission networks both electrical and mechanical. He is now head of the department investigating piezoelectric crystals.

EARLE E. SCHUMACHER, B.S., University of Michigan; Research Assistant in Chemistry, 1916-18. Engineering Department, Western Electric Company, 1918-25; Bell Telephone Laboratories, 1925-. As Associate Research Metallurgist, Mr. Schumacher is in charge of a group whose work relates largely to research studies on metals and alloys.

ROGER I. WILKINSON, B.S. in E.E., Iowa State College, 1924. Northwestern Bell Telephone Company, 1920-1921; American Telephone and Telegraph Company, 1924-1934; Bell Telephone Laboratories, Inc., 1934-. Mr. Wilkinson has studied principally the application to telephone problems of the mathematical theory of probability.